

PATENT
SU-7273

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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

JAMES L. MCNAUGHTON

SERIAL NO.: 10/603,132

FILED: JUNE 24, 2003

MICROBIOLOGICAL CONTROL IN THE
PROCESSING OF POULTRY

EXAMINER:
ARTHUR L. CORBIN

ART UNIT: 1761

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

FIFTH SUPPLEMENTAL INFORMATION DISCLOSURE STATEMENT

Enclosed herewith for consideration by the Examiner is a Fifth Supplemental Information Disclosure Form PTO/SB/08A and PTO/SB/08b. There are 24 U.S. patent references listed but not enclosed and 1 foreign patent documents and 38 literature references listed and enclosed.

Respectfully Submitted,

John F. Sieberth
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CERTIFICATE OF MAILING

I hereby certify that this paper (along with any referred to as being attached or enclosed) is being deposited on the date shown below with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

June 2, 2006
Date

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PTO/SB/17 (12-04v2)
Approved for use through 07/31/2006. OMB 0651-0032
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Effective on 12/08/2004.

Filed pursuant to the Consolidated Appropriations Act, 2005 (H.R. 4818).

FREE TRANSMITTAL
for FY 2005☐ Applicant claims small entity status. See 37 CFR 1.27

TOTAL AMOUNT OF PAYMENT (\$) \$180.00

Complete if Known

Application Number	10/603,132
Filing Date	June 24, 2003
First Named Inventor	JAMES L. MCNAUGHTON
Examiner Name	Arthur L. Corbin
Art Unit	1761
Attorney Docket No.	SU-7273

METHOD OF PAYMENT (check all that apply)☐ Check ☐ Credit Card ☐ Money Order ☐ None ☐ Other (please identify): _____☒ Deposit Deposit Account Number: 01-0659 Deposit Account Name: Albemarle Corp.

For the above-identified deposit account, the Director is hereby authorized to: (check all that apply)

☒ Charge fee(s) indicated below ☐ Charge fee(s) indicated below, except for the filing fee☒ Charge any additional fee(s) or any underpayment of fee(s) under 37 CFR 1.16 and 1.17 ☐ Credit any overpayments**WARNING:** Information on this form may become public. Credit card information should not be included on this form. Provide credit card information and authorization on PTO-2038.**FEE CALCULATION****1. BASIC FILING, SEARCH, AND EXAMINATION FEES**

Application Type	FILING FEES		SEARCH FEES		EXAMINATION FEES		Fees Paid(\$)
	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	Fee (\$)	Small Entity Fee (\$)	
Utility	300	150	500	250	200	100	
Design	200	100	100	50	130	65	
Plant	200	100	300	150	160	80	
Reissue	300	150	500	250	600	300	
Provisional	200	100	0	0	0	0	

2. EXCESS CLAIM FEES

Fee Description	Fee (\$)	Small Entity Fee (\$)
Each claim over 20 (including Reissues)	50	25
Each independent claim over 3 (including Reissues)	200	100
Multiple dependent claims	360	180

Total Claims	Extra Claims	Fee (\$)	Fee Paid (\$)	Multiple Dependent Claims Fee (\$)	Fee Paid (\$)
- 20 or HP =	x	\$50.00	=		\$0.00

HP = highest number of total claims paid for, if greater than 20.

<u>Indep. Claims</u>		<u>Extra Claims</u>		<u>Fee (\$)</u>		<u>Fee Paid (\$)</u>
	- 3 or HP =		x	\$200.00	=	\$0.00

HP = highest number of independent claims paid for, if greater than 3.

3. APPLICATION SIZE FEE

If the specification and drawings exceed 100 sheets of paper (excluding electronically filed sequence or computer listing under 37 CFR 1.52(e)), the application size fee due is \$250 (\$125 for small entity) for each additional 50 sheets or fraction thereof. See 35 U.S.C. 41(a)(1)(G) and 37 CFR 1.16(s).

Total Sheets	Extra Sheets	Number of each additional 50 or fraction thereof	Fee (\$)	Fee Paid (\$)
- 100 =	0	/ 50 0 (round up to a whole)	x \$250.00	= \$0.00

4. OTHER FEE(S)

Non-English specification, \$130 fee (no small entity discount)

Other (e.g., late filing surcharge): Fifth Supplemental Information Disclosure Statement

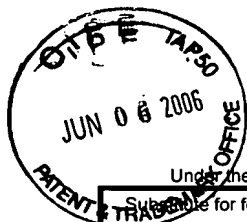
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Signature		Registration No. (Attorney/Agent)	48,227	Telephone	225-388-8191
Name (Print/Type)	JEREMY J. KLIEBERT			Date	June 2, 2006

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Substitutable for form 1449/PTO		Complete if Known			
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)		Application Number	10/603,132		
		Filing Date	June 24, 2003		
		First Named Inventor	James L. McNaughton		
		Group Art Unit	1761		
		Examiner Name	Arthur L. Corbin		
Sheet	1	of	5	Attorney Docket Number	SU-7273

U.S. PATENT DOCUMENTS					
Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
	US-230	US-1995639	03-26-1935	Henderson	
	US-231	US-2443429	06-15-1948	Marks	
	US-232	US-2662855	09-07-1950	Kamlett	
	US-233	US-2815311	12-03-1957	Ellis, et al.	
	US-234	US-3519569	07-07-1970	Diaz	
	US-235	US-3850833	11-26-1974	Kocheich, et al.	
	US-236	US-3958020	05-18-1976	DeVries et al.	
	US-237	US-3961086	01-06-1976	Turbak et al.	
	US-238	US-4199602	04-22-1980	Lentsch	
	US-239	US-4235599	11-25-1980	Davis, et al.	
	US-240	US-4250910	02-17-1981	King	
	US-241	US-4258056	03-24-1981	Lentsch	
	US-242	US-4297224	10-27-1981	Macchiariolo, et al.	
	US-243	US-4362753	12-07-1982	Barta	
	US-244	US-4376787	03-15-1983	Lentsch et al.	
	US-245	US-4420394	12-13-1983	Lewis	
	US-246	US-4469848	09-04-1984	Hooper et al.	

FOREIGN PATENT DOCUMENTS						
Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear	T ⁶
		Country Code ³ - Number ⁴ - Kind Code ⁵ (if known)				
	FP-42	WO-8103110	11/12/1981	Barta		

Examiner Signature	Date Considered
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Sheet	2	of	5	Attorney Docket Number	SU-7273

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Examiner Signature		Date Considered	
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		Examiner Name	Arthur L. Corbin		
Sheet	3	of	5	Attorney Docket Number	SU-7273

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
	L-93	Albright, J.C., "Liquid Bromine Removes Obstinate Algae from 10,000 Gallon Tower for \$2.10 a Day," Petroleum Processing (1948) 3: 421-422.	
	L-94	Aull, R. and T. Krell, "Design Features and their Affect on High Performance Fill," paper TP00-01 (Houston, TX: Cooling Technology Institute, 2000), ppg 1-31.	
	L-95	"AWT Legionella 2003 - An Update and Statement by the Association of Water Technologies (AWT)" (McLean, VA: Association of Water Technologies, 2003). ppg 1-33.	
	L-96	Balard, A.J., Annales de Chemie et de Physique (1826), vol 32, ppg 371-372.	
	L-97	Barratt, S. and C.P. Stein, "On Bromine Chloride," Proceedings of the Royal Society (London) (1929) vol 122: 582-588.	
	L-98	Bartholomew, R.W., "Bromine-based Biocides for Cooling Water Systems: A Literature Review," Paper IWC 98-74 (Pittsburgh, PA: Engineers' Society of Western Pennsylvania, 1998), 30 pages.	
	L-99	Beckwith, T.D. and J.R. Moser, Journal of the American Water Works Association (1933) 25: 367-374.	
	L-100	Bongers, L.H., T.P. O'Connor and D.T. Burton, "Bromine Chloride - An Alternative to Chlorine for Fouling Control in Condenser Cooling Systems," report no. EPA-600/7-77-053 (Research Triangle Park, NC: EPA Office of Research and Development, May 1977), 5 pages.	
	L-101	"Bromine Brine," Arkansas Geological Commission, web address www.state.ar.us/agc/bromine.htm ; 1 page.	
	L-102	Brungs, W.A., "Effects of Residual Chlorine on Aquatic Life," Journal of the Water Pollution Control Federation (1973) 45: 2180-2193.	
	L-103	Characklis, W.G. and K.C. Marshall, ed., Biofilms: A Basis for an Interdisciplinary Approach, (New York, NY: John Wiley & Sons, 1987), pg 3-5.	
	L-104	Clare, A.S., "Marine Natural Product Antifoulants: Status and Potential," Biofouling (1996) 9: 211-229.	
	L-105	Conley, J.C., E.H. Puzig, and J.E. Alleman, "Bromine Chemistry - An Alternative to Dechlorination in Cooling Water and Wastewater Disinfection," IWC-87-42 (Pittsburgh, PA: Engineers' Society of Western Pennsylvania, 1987), ppg 389-395.	
	L-106	"Control of Legionella in Cooling Towers: Summary Guidelines," (Madison, WI: Wisconsin Division of Health, August 1987), 45 pages.	
	L-107	Costerton, J.W. and P.S. Stewart, "Battling Biofilms," Scientific American (July 2001) 285: 74-81.	
	L-108	Dychala, G.R., "Chlorine and Chlorine Compounds" in Disinfection, Sterilization, and Preservation 4 th Ed., S.S. Block, ed., pp. 137-138 and 149-15, (Philadelphia, PA, Lea & Febiger, 1991).	
	L-109	Elsmore, R., "Development of Bromine Chemistry in Controlling Microbial Growth in Water Systems," International Biodeterioration and Biodegradation (1994) 245-253.	

Examiner Signature		Date Considered	
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NON PATENT LITERATURE DOCUMENTS			
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	L-110	Enzien, M. and B. Yang, "On-line Performance Monitoring of Treatment Programs for MIC Control," paper 01279 (Corrosion 2001, Houston, TX: NACE International, 2001), 13 pages.	
	L-111	"Evolution of Industrial Water Treatment," Betz Handbook of Industrial Water Conditioning, Seventh Edition, pp 7-15 (Trevose, PA: Betz Laboratories, Inc., 1976).	
	L-112	Fair, G.M., et al., "The Behavior of Chlorine as a Water Disinfectant," Journal of the American Water Works Association (1948) 40: 1051-1061.	
	L-113	Farkas-Himsley, H., "Killing of Chlorine-Resistant Bacteria by Chlorine-Bromine Solutions," Applied Microbiology (1964) 12: 1-6.	
	L-114	Freije, M.R., "Legionellae Control in Health Care Facilities: A Guide for Minimizing Risk," (Indianapolis, IN: HC Information Resources, Inc., 1996, ppg 25-41.	
	L-115	Genthe, H. "The Incredible Sponge," Smithsonian (August 1998) 29: 50-58.	
	L-116	Gillam, A.E. and R.A. Morton, "The Absorption Spectra of Halogens and Inter-Halogen Compounds in Solution in Carbon Tetrachloride," Proceedings of the Royal Society (London) (1929) vol 124: 604-616.	
	L-117	Givskov, M. et al., "Eukaryotic Interference with Homoserine Lactone-Mediated Prokaryotic Signaling," Journal of Bacteriology (1996) 178: 6618-6622.	
	L-118	Grinbaum, B. and M. Friedman, "Bromine," in Kirk-Othmer Encyclopedia of Chemical Technology 4 th Ed. (New York, NY: John Wiley and Sons, Inc., 2001), vol 4, ppg 548-549.	
	L-119	Houghton, G.U., "Bromine Content of Underground Waters. II. Observations on the Chlorination of Water Containing Free Ammonia and Naturally Occurring Bromide", Journal of the Society of the Chemical Industry (1946) 65: 324-328	
	L-120	Himpler, F. J., P.G. Sweeney, and M.L. Ludensky, "The Benefits of a Hydantoin-Based Slimicide in Papermaking Applications," APPITA Journal (September 2001) 54: 427-430.	
	L-121	Howarth et al., "First Field Trials of Single-Feed, Liquid Bromine Biocide For Cooling Towers", Paper TP00-09 (Houston, Tx.: Cooling Technology Institute, Jan. 31-Feb 2, 2000), 17 pages	
	L-122	Johannesson, J.K., "The Bromination of Swimming Pools," American Journal of Public Health (1960) 50: 1731-1736.	
	L-123	Johannesson, J.K., "Anomalous Bactericidal Action of Bromamine," Nature (1958) 181: 1799-1780.	
	L-124	Johns, C.K., "Germicidal Power of Sodium Hypochlorite," Industrial and Engineering Chemistry (1934) 26: 787-788.	
	L-125	Johnson, J.D. and W. Sun, "Bromine Disinfection of Wastewater," in "Disinfection-Water and Wastewater," J.D. Johnson, ed., pp 179-191 (Ann Arbor, MI: Ann Arbor Science, 1975).	
	L-126	Kabler, P.W., "Relative Resistance of Coliform Organisms and Enteric Pathogens in the Disinfection of Water with Chlorine," J. American Water Works Association (1951) 43: 553-560.	

Examiner Signature	Date Considered
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